Update: Pneumococcal Vaccines Work Group

Advisory Committee on Immunization Practices (ACIP)
June 27, 2007

Work group membership

ACIP members:

Julie Morita (chair)

Carol Baker

Dale Morse

Kathy Neuzil

Liaison representatives:

Nancy Bennet, NACCHO
Doug Campos-Outcalt, AAFP
Shelley Deeks, NACI, HCA
Lorry Rubin, AAP
William Schaffner, NFID

Ex Officio members:

Lucia Lee, FDA Kristin Nichol, VA Ray Strikas, NVPO

Consultants:

Jay Butler, Alaska DPH Lisa Jackson, Group Health, WA Rick Zimmerman, University of Pittsburgh

CDC

William Atkinson Angela Calugar Tom Hennessy Matt Moore Pekka Nuorti Greg Wallace Cynthia Whitney

Terms of reference

 Review the need and optimal timing for updated statements on the use of pneumococcal conjugate (PCV7) and polysaccharide vaccines (PPV23)

 Develop a revised statement on use of pneumococcal vaccines for ACIP review and approval

Current ACIP statements

- Prevention of pneumococcal disease, MMWR 1997
- Preventing pneumococcal disease among infants and young children, MMWR 2000
- Update and merge the current statements
 - Key issues and data that have emerged since the previous statements
 - Policy implications and options
 - Need for changes in actual recommendation?

Work Plan

- Work group established October, 2006
- Monthly conference calls
 - PCV7: January-April, 2007
 - PPV23: May-August, 2007
- Tentative timeline
 - Presentation to full ACIP in October 2007
 - What are the proposed changes to recommendations for use of PPV23 and PCV7?
 - Revised statement to be published in first half of 2008

Key issues under consideration - PCV7

- Are any changes needed to current recommendation based on data:
 - Direct and indirect PCV7 population effects
 - Non-vaccine serotype replacement
 - Trends in antimicrobial resistance
- PCV7 use and effects in special populations
 - Alaskan Native/American Indian children
- Alternative vaccine schedules with reduced number of vaccine doses

Data reviewed - PCV7

- Trends in invasive pneumococcal disease in the U.S. before and after PCV7
- Population impact of PCV7 on pneumonia hospitalizations and otitis media visits
- Increase in invasive pneumococcal disease in Alaska Native children due to serotypes not in PCV7
- Impact of 9 years of PCV7 use on IPD among Navajo

Data reviewed - PCV7 contd.

- Comparative immunogenicity of PCV7 using a 2+1 alternative dosing schedule
- Post-licensure effectiveness of PCV7 against invasive pneumococcal disease in the U.S.
- Uptake of PCV7 among children in the U.S.
- Experience with reduced PCV7 dose schedules in the U.K
- Impact of 3-dose PCV7 immunization program in the province of Quebec, Canada

Key issues under consideration - PPV23

- Vaccine effectiveness
 - Addressing contradictory data regarding vaccine effectiveness
 - Limitations of PPV23 in elderly persons and high risk groups
- Revaccination
 - Duration of protection,
 - Safety and immunogenicity of revaccination
 - Optimal timing and frequency of revaccination
- What is the overall achievable public health impact?

Data reviewed - PPV23

- Review of contemporary studies of PPV23 efficacy and effectiveness
 - Outcomes: IPD, pneumonia, mortality
 - Study designs: clinical trials, observational studies, ecologic studies
- Considerations regarding revaccination with PPV23
 - Duration of protection, safety immunogenicity and effectiveness of first revaccination
 - Safety of multiple revaccinations
 - Optimal timing and frequency of revaccination: what ages and how often?

Remaining Topics

- Possible new PPV23 target groups (risk-based)
- PPV23 programmatic/implementation issues
- Updated PPV23 and PCV7 economic studies
- Potential timelines for new pneumococcal vaccines